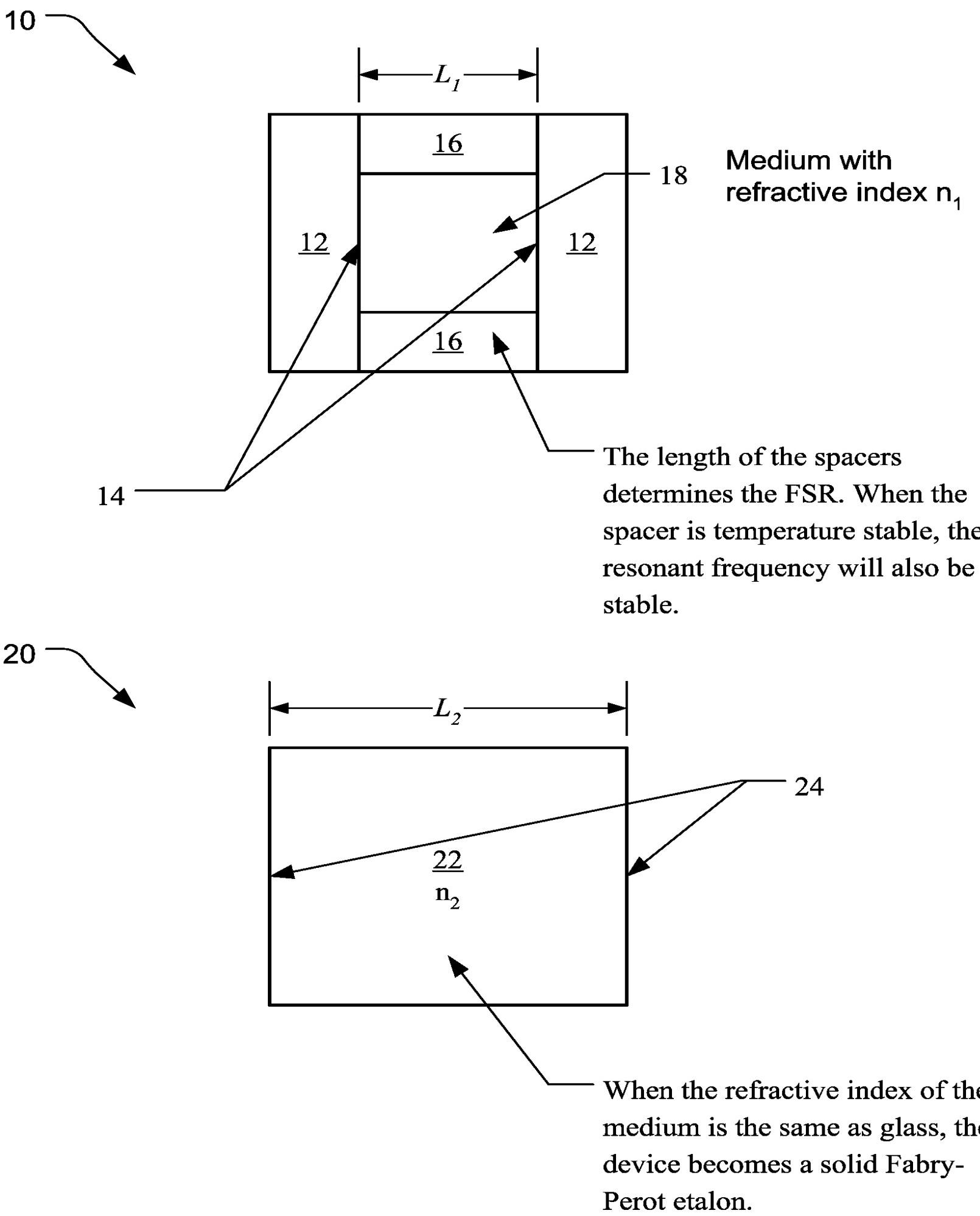


FIG. 1 (background art)



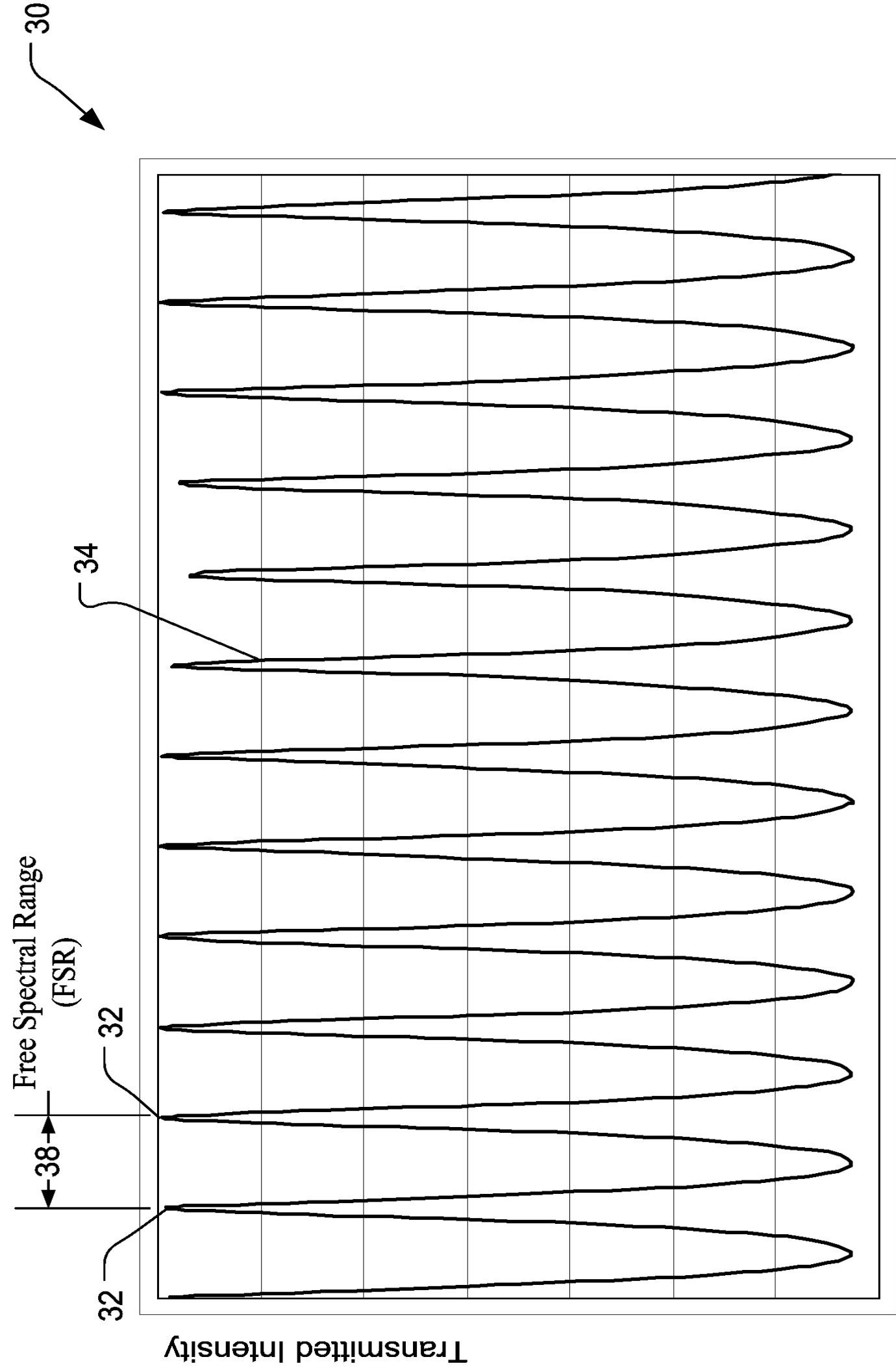
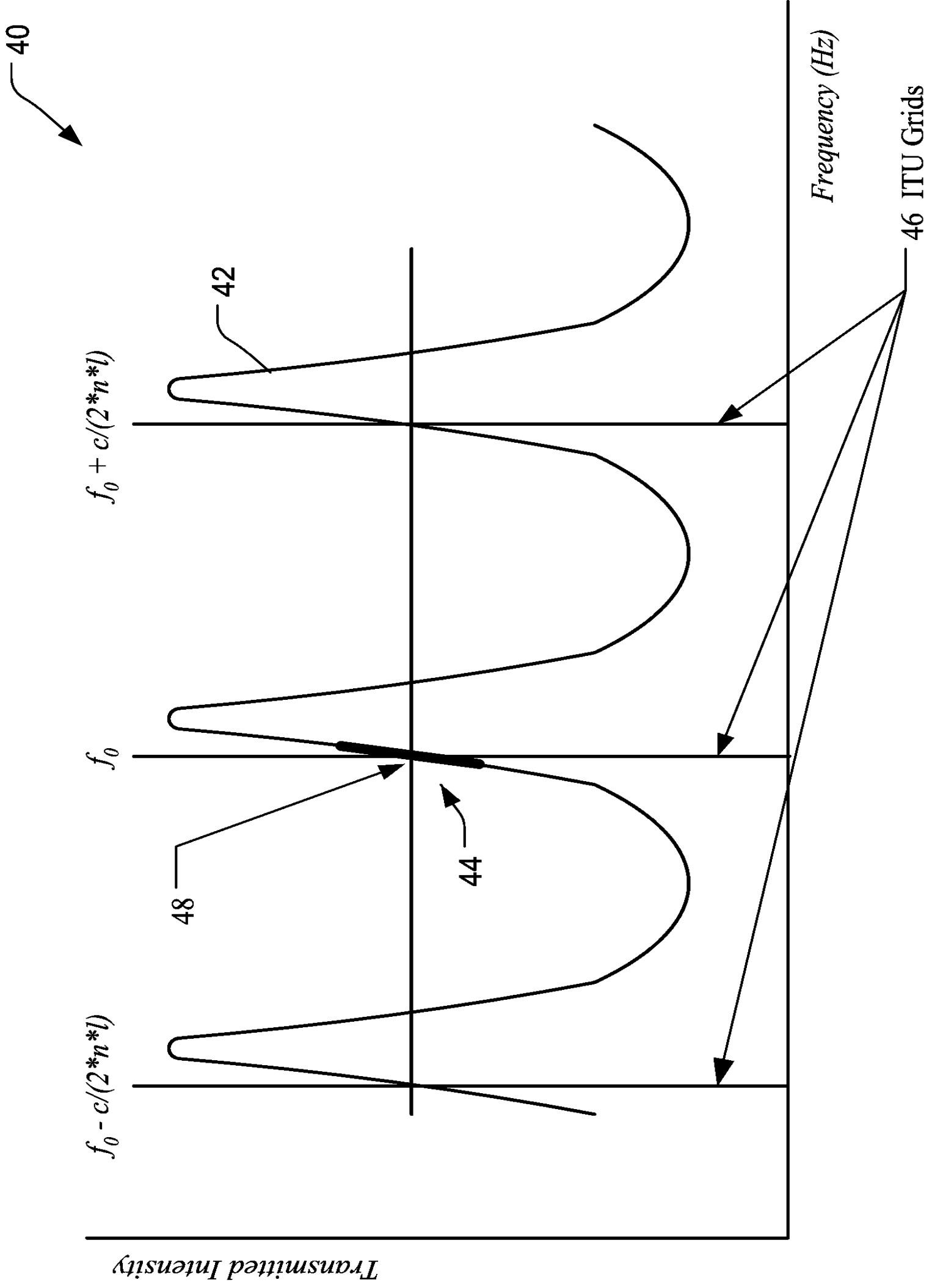


FIG. 2 (background art)

FIG. 3 (background art)



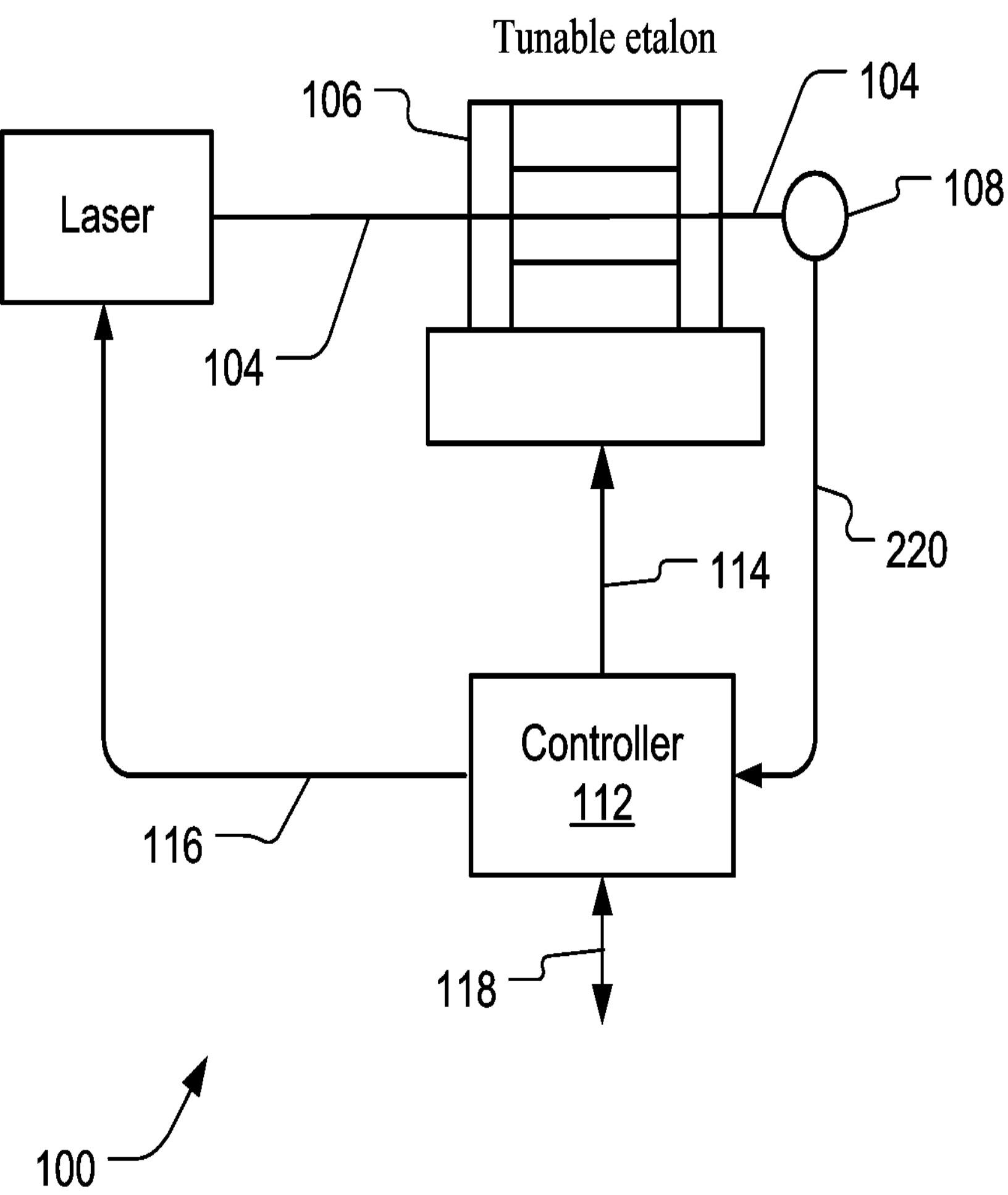
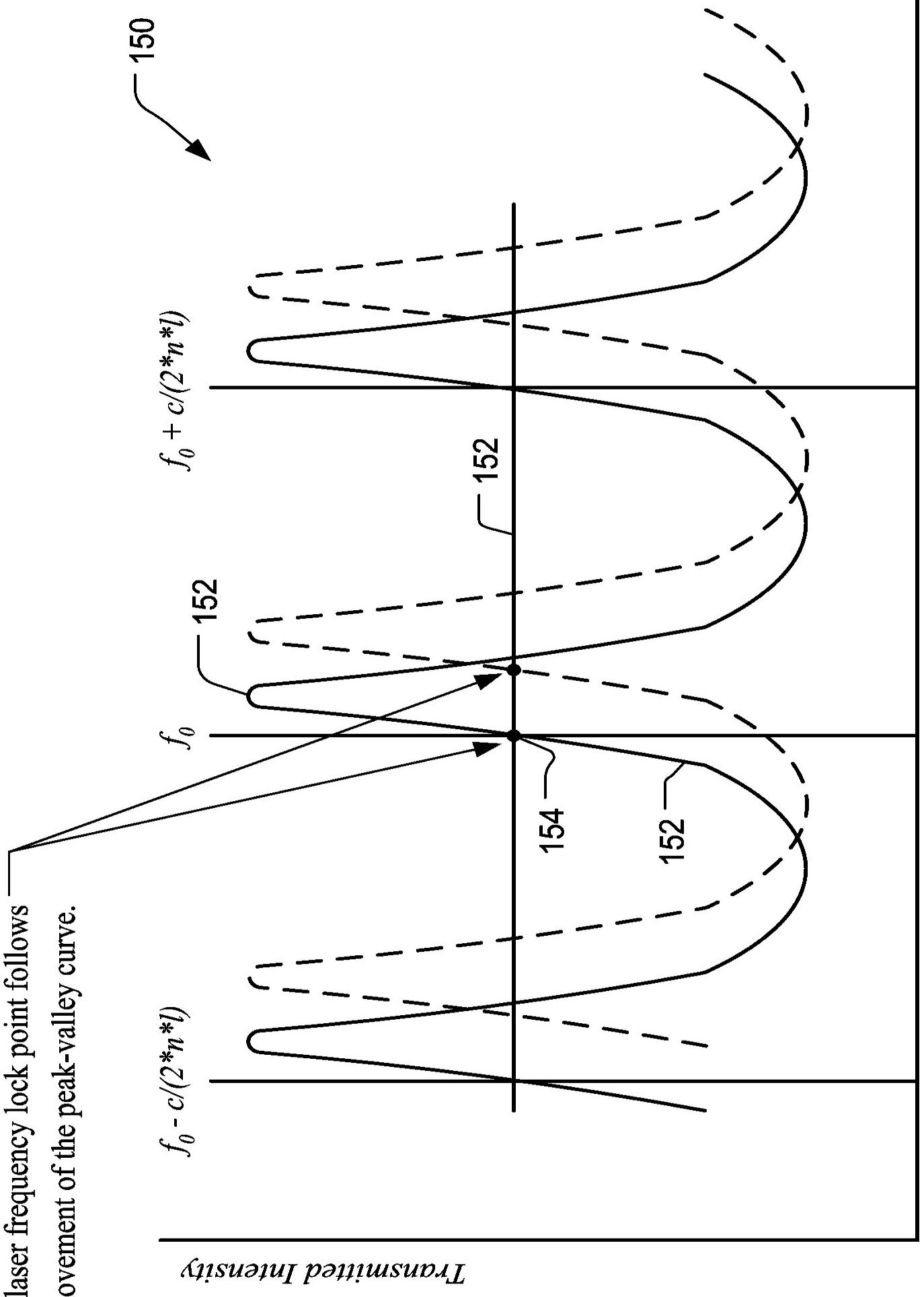


FIG. 4

FIG. 5

The laser frequency lock point follows the movement of the peak-valley curve.



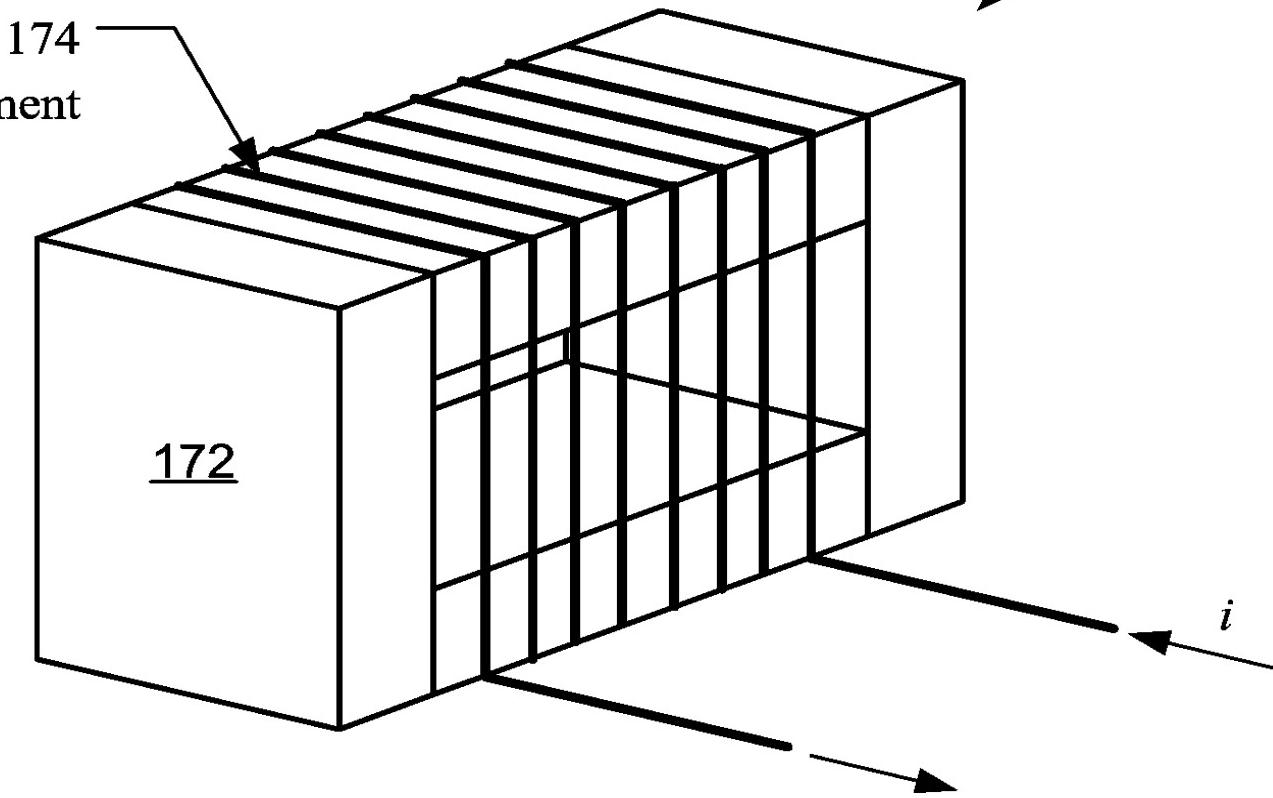


FIG. 6a

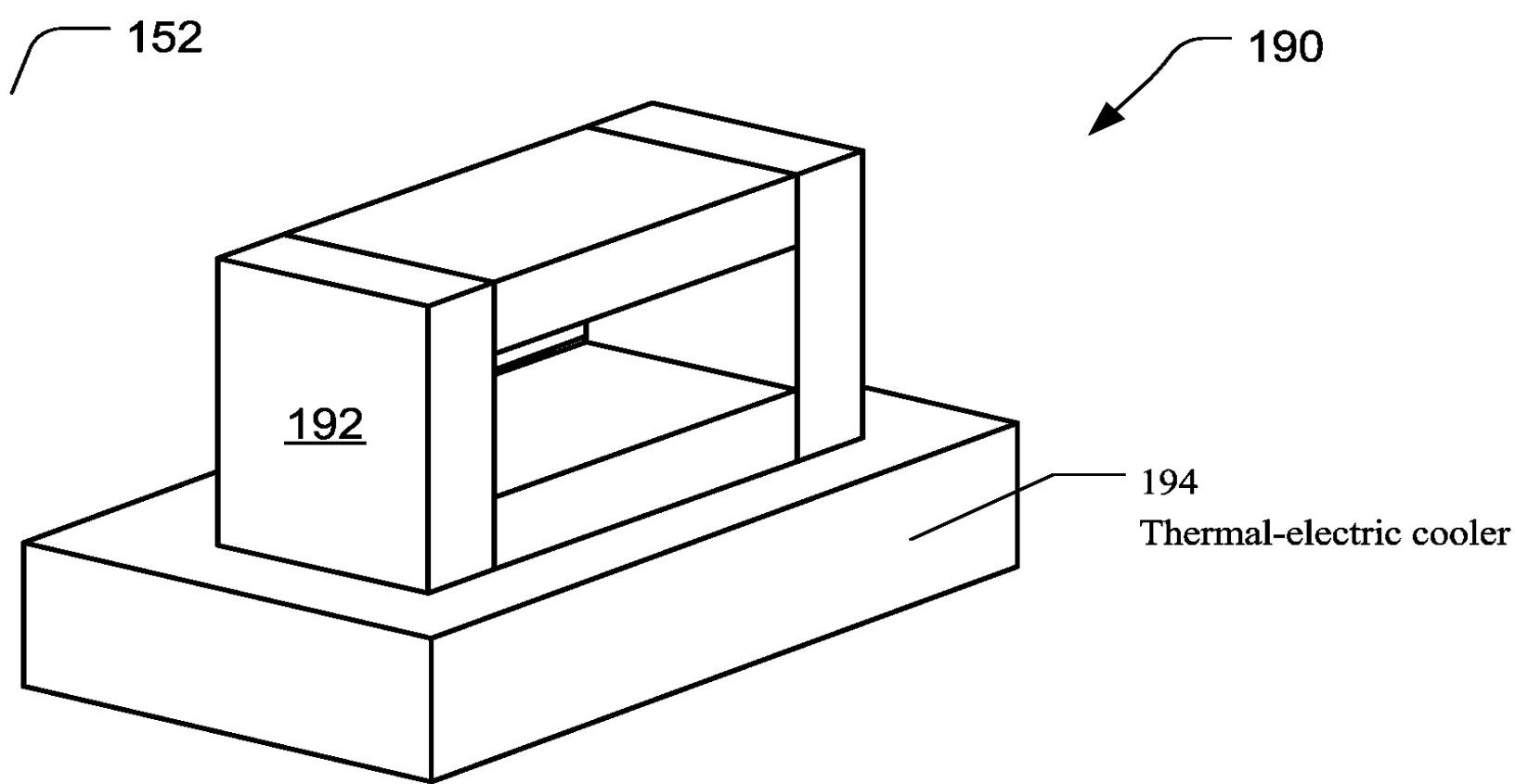


FIG. 6b

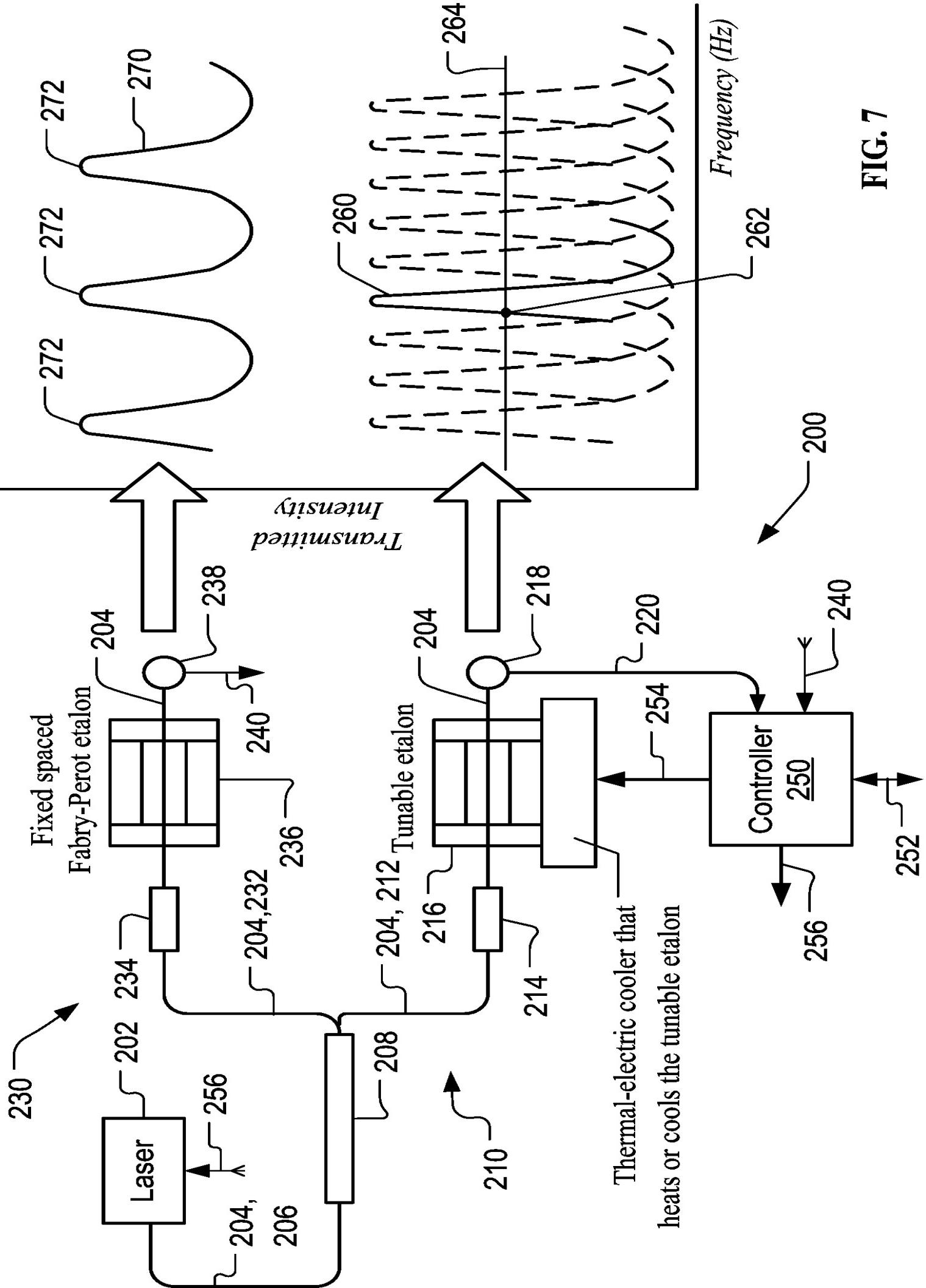
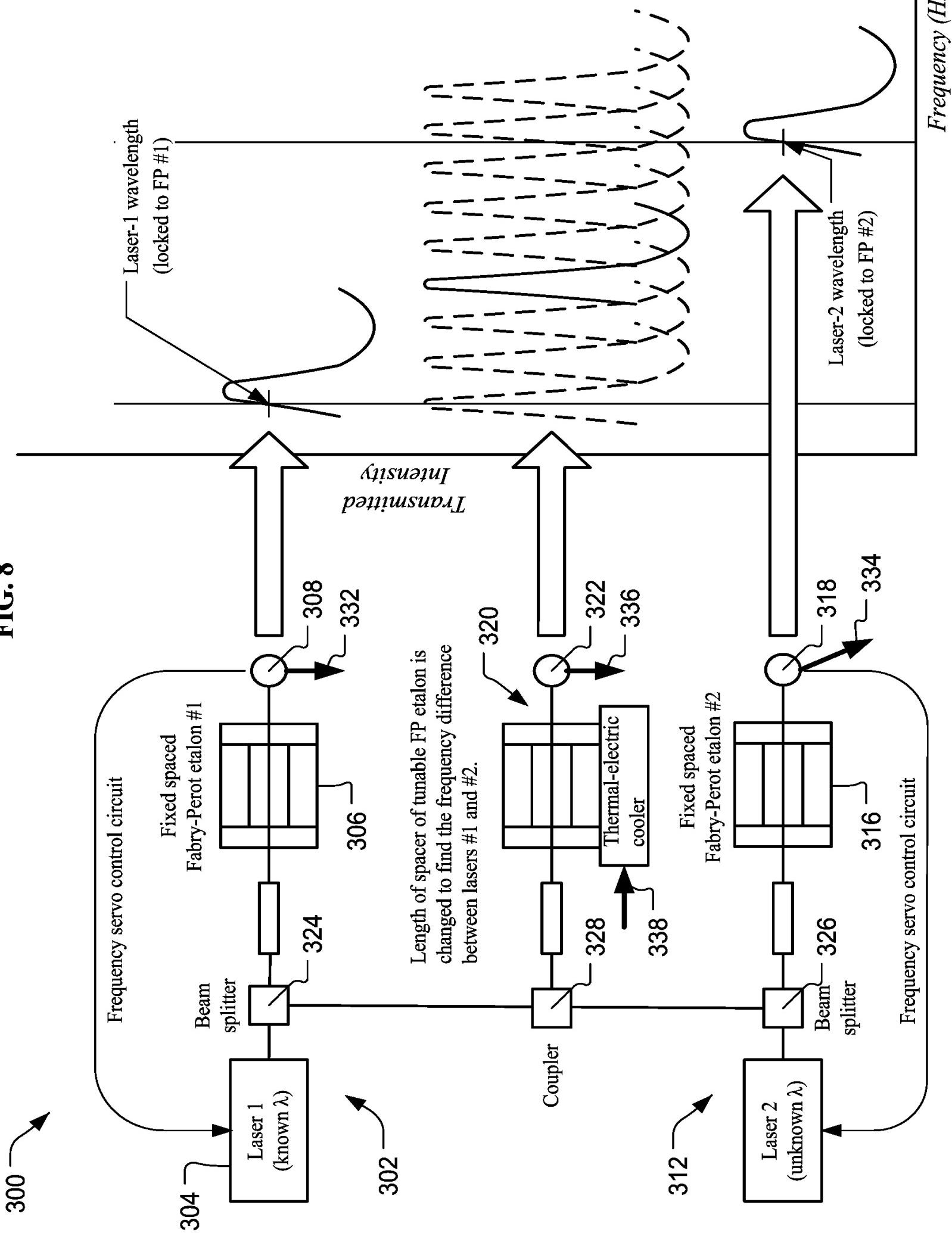


FIG. 7

FIG. 8



| ITU Frequency (GHz) | Etalon Temperature (°C) | Etalon Spacer Length (mm) |
|--------------------------------|------------------------------------|--------------------------------------|
| 196100 | 14.0 | 2.844 |
| 196000 | 14.8 | 2.852 |
| 195900 | 15.6 | 2.860 |
| 195800 | 16.4 | 2.867 |
| 195700 | 17.2 | 2.875 |
| 195600 | 18.0 | 2.883 |
| 195500 | 18.8 | 2.891 |
| 195400 | 19.6 | 2.899 |
| 195300 | 20.4 | 2.906 |
| 195200 | 21.2 | 2.914 |
| 195100 | 22.0 | 2.922 |
| 195000 | 22.8 | 2.930 |
| 194900 | 23.6 | 2.938 |
| 194800 | 24.4 | 2.945 |
| 194700 | 25.2 | 2.953 |
| 194600 | 26.0 | 2.961 |
| 194500 | 26.8 | 2.969 |
| 194400 | 27.6 | 2.977 |
| 194300 | 27.6 | 2.984 |
| 194200 | 29.2 | 2.992 |
| 194100 | 30.0 | 3.000 |
| 194000 | 30.8 | 3.008 |
| 193900 | 31.6 | 3.016 |
| 193800 | 32.4 | 3.023 |
| 193700 | 33.2 | 3.031 |
| 193600 | 34.0 | 3.039 |
| 193500 | 34.8 | 3.047 |
| 193400 | 35.6 | 3.055 |
| 193300 | 36.4 | 3.062 |
| 193200 | 37.2 | 3.070 |
| 193100 | 38.0 | 3.078 |
| 193000 | 38.8 | 3.086 |
| 192900 | 39.6 | 3.094 |
| 192800 | 40.4 | 3.101 |
| 192700 | 41.2 | 3.109 |
| 192600 | 42.0 | 3.117 |
| 192500 | 42.8 | 3.125 |
| 192400 | 43.6 | 3.133 |
| 192300 | 44.4 | 3.140 |
| 192200 | 45.2 | 3.148 |

TBL. 1